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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/676,918	09/30/2003	Nadav Eiron	ARC920030028US1	8277
72280 7590 04/07/2008 VAN N. NGUY IBM CORPORATION, ALMADEN RESEARCH CENTER INTELLECTUAL PROPERTY LAW DEPT. C4TA/J2B 650 HARRY ROAD SAN JOSE, CA 95120-6099				
EXAMINER				
BLACK, LINH				
ART UNIT		PAPER NUMBER		
2163				
MAIL DATE		DELIVERY MODE		
04/07/2008		PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

10/676,918

Applicant(s)

EIRON ET AL.

Examiner

LINH BLACK

Art Unit

2163

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 30 September 2003.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-21 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-21 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO/SE/US)
Paper No(s)/Mail Date 6/9/04
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date _____
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____

DETAILED ACTION

This communication is responsive to the application filed 9/30/03. Claims 1-21 are pending in the application. Claims 1, 20-21 are independent claims.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-7, 9-15, 17-18, 20-21 are rejected under 35 U.S.C. 102(e) as being anticipated by Wolton et al. (US 2004/0030741).

As per claims 1 and 20-21, Wolton et al. teach

identifying a compound document as a coherent body of hyperlinked material on a single topic as created by a number of collaborating authors – paragraphs 152, 363-367, 832.

analyzing the content and structure of the compound document to find a preferred entry point for the compound document – pars. 662-663, 800.

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processing the compound document as a whole, including at least one of indexing, classification, and retrieval – pars. 432, 512-521, 474.

processing the compound document from the entry point, including at least one of creating at least one of presentation of results from retrieval, summarization, and classification – pars. 49-52, 151-154, 831.

As per claim 2, Wolton et al. teach the internet, an intranet, and a digital library – par. 149.

As per claim 3, Wolton et al. teach

wherein the body of hyperlinked material is distributed over a plurality of URLs – pars. 156, 158, 802, 832.

As per claim 4, Wolton et al. teach

wherein the identifying includes observing the results of a number of heuristics run on the body of hyperlinked material and related hyperlinks - pars. 397 (rules), 402, 792-795.

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As per claim 5, Wolton et al. teach

wherein the heuristic includes identifying hyperlinks that link within the same directory and include a sufficient quantity of common anchor text – pars. 566-573.

As per claim 6, Wolton et al. teach

wherein the heuristic includes identifying hyperlinks that contain linguistic structures that indicate relationships between parts of a document including at least one of a list of page numbers, and the terms "next", "previous", "index", "contents", and their non-English equivalents – pars. 433, 512-521, 1045.

As per claim 7, Wolton et al. teach

wherein the heuristic includes identifying external hyperlinks to the same places – pars. 538, 567.

As per claim 9, Wolton et al. teach

wherein the heuristic includes identifying individual URLs having similar structure indicating an order of inclusion in the compound document – pars. 163-164, 484.

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As per claim 10, Wolton et al. teach

wherein the heuristic includes identifying a link structure of "wheel" form – pars. 426, 544-550, 564-567.

As per claim 11, Wolton et al. teach

wherein the analyzing includes observing the results of a number of heuristics run on the component document and related hyperlinks – pars. 374, 432, 802, 1048.

As per claim 12, Wolton et al. teach

wherein the heuristic includes identifying specific filenames that define the entry point, including at least one of: "index" and "default" – pars. 432, 662, 800.

As per claims 13-14, Wolton et al. teach

wherein the heuristic includes identifying a particular component document in the compound document as the entry point because the component document has several in-links; wherein the in-links are from outside the compound document – pars. 18, 156, 434.

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As per claim 15, Wolton et al. teach

wherein the heuristic includes identifying a particular component document in the compound document as the entry point because the component document has several out-links – pars. 538, 567.

As per claim 17, Wolton et al. teach

URLs having common directory components followed by different ending directory components - pars. 565-571.

As per claim 18, Wolton et al. teach

wherein the ending directory components contain specific identifying information – pars. 662, 800.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claim 8 is rejected under 35 U.S.C. 103(a) as being unpatentable over Wolton et al. (US 2004/0030741), in view of Brown et al. (US 20040064471).

As per claim 8, Wolton teaches similarity between words/terms, subjects - pars. 164, 435. Wolton does not disclose wherein the heuristic includes identifying at least one of: similar creation dates and similar last-modified dates. Brown teaches a page has a plurality of links to linked pages in the database – pars. 10-11; 45, 47; web pages' information such as creation dates can be searched – par. 62. Thus, it would have been obvious to one of ordinary skill in the art at the time of the invention to combine Wolton's teaching with Brown's teaching in order to better identify the searching pages.

Claims 16, 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wolton et al. (US 2004/0030741), in view of Gould et al. (US 20050060295).

As per claim 16, Wolton does not disclose determining a measure of vector distances along intra-document links between a particular component document and all other component documents in the compound document. Gould et al. teach classifying data using distance metric between feature vectors where nodes of data are connected by links – pars. 24-25. Thus, it would have been obvious to one of ordinary skill in the art at the time of the invention to combine Wolton's teaching with Gould's teaching in order to analyze data for better storage and retrieval.

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As per claim 19, Wolton et al. do not teach numerical scores and the combining includes a weighted averaging of the numerical scores into an overall score, and the maximum overall score determines the preferred entry point. Gould teaches overall score – pars. 54, 60, 65; weight – pars. 56, 59-60, 64. Thus, it would have been obvious to one of ordinary skill in the art at the time of the invention to combine Wolton's teaching with Gould's teaching in order to better analyze the data thus, better data storage and retrieval.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to LINH BLACK whose telephone number is 571-272-4106. The examiner can normally be reached on Mon.-Thurs..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Don Wong can be reached on 571-272-1834. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

LINH BLACK
Examiner
Art Unit 2163

March 21, 2008.
/don wong/
Supervisory Patent Examiner, Art Unit 2163